Claims

What is claimed is:

1   1.   A method, comprising:

2   scheduling a data flow adjustment, said data flow between a pair of nodes

3   communicatively coupled by a network, said scheduling responsive to

4   networking performance statistics.

1   2.   The method of claim 1 wherein said networking performance statistics

2   further comprise a window transit time over said network.

1   3.   The method of claim 1 wherein said networking performance statistics

2   further comprise an average delay over said network.

1   4.   The method of claim 1 wherein said networking performance statistics

2   further comprise an arrival rate of expected messages.

1   5.   The method of claim 1 wherein said networking performance statistics

2   further comprise a state of a queue that receives messages from said network,

3   said queue within a first node of said pair of nodes.

1   6.   The method of claim 1 further comprising inquiring whether or not a flow

2   increase is desirable in light of said networking performance statistics.

1   7.   The method of claim 6 further comprising comparing said networking

2   performance statistics against a minimum performance level and not scheduling

3   a said data flow adjustment if said minimum performance level is not achieved.

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1   8.   The method of claim 1 wherein said adjusting further comprises

2   increasing said data flow according to a first flow increase schedule until data

3   associated with said data flow is lost on said network.

1   9.   The method of claim 8 wherein said adjusting further comprises

2   increasing said data flow according to a second flow increase schedule after said

3   data is lost, said second said flow increase schedule having a rate of flow

4   increases less than said first flow increase schedule.

1   10.   The method of claim 1 wherein said scheduling further comprises a flow

2   timeout pointer and a flow timeout threshold, a said data flow adjustment

3   triggered if said flow timeout pointer passes said flow timeout threshold

4   position.

1   11.   The method of claim 10 further comprising adjusting said flow timeout

2   threshold in response to said networking performance statistics.

1   12.   The method of claim 11 further comprising adjusting said flow timeout

2   threshold to a position corresponding to a reduced rate of flow increase if data

3   associated with said data flow is lost on said network.

1   13.   The method of claim 10 wherein said flow timeout threshold position

2   corresponds to a factor of a window size used to control said data flow.

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1   14.   The method of claim 1 wherein said adjustment further comprises

2   adjusting a window size.

1   15.   The method of claim 14 wherein said window size is adjusted by a

2   datagram size.

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